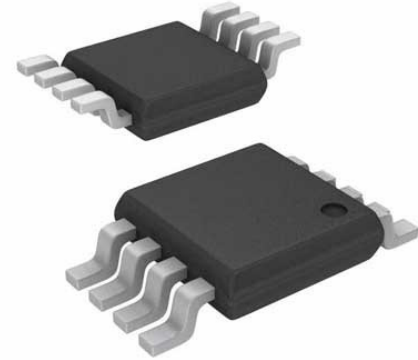


Micropower, Rail-to-Rail I/O, High Linearity Amplifiers

Manufacturers	Analog Devices, Inc
Package/Case	MSOP8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8506ARMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

This combination of features makes the AD8505/AD8506/AD8508 amplifiers ideal choices for battery-powered applications because they minimize errors due to power supply voltage variations over the lifetime of the battery and maintain high CMRR even for a rail-to-rail input op amp. Remote battery-powered sensors, handheld instrumentation, consumer equipment, hazard detection (for example, smoke, fire, and gas), and patient monitors can benefit from the features of the AD8505/AD8506/AD8508 amplifiers.

The AD8505/AD8506/AD8508 are specified for both the industrial temperature range of -40°C to $+85^{\circ}\text{C}$ and the extended industrial temperature range of -40°C to $+125^{\circ}\text{C}$. The AD8505 single amplifier is available in a tiny 5-lead SOT-23 package. The AD8506 dual amplifier is available in 8-lead MSOP and 8-ball WLCSP packages. The AD8508 quad amplifier is available in 14-lead TSSOP and 14-ball WLCSP packages. The AD8505/AD8506/AD8508 are members of a growing series of zero crossover distortion op amps offered by Analog Devices, Inc., including the ADA4505-1/ ADA4505-2/ADA4505-4, that operate from a single 1.8 V to 5 V supply or from dual ± 0.9 V to ± 2.5 V power supplies.

Features

PSRR: 100 dB minimum

CMRR: 105 dB typical

Very low supply current: 20 μ A per amplifier maximum

1.8 V to 5 V single supply or ± 0.9 V to ± 2.5 V dual supply

Rail-to-rail input/output

Low noise: 45 nV/ $\sqrt{\text{Hz}}$ at 1 kHz

2.5 mV offset voltage maximum

Very low input bias current: 1 pA typical

Application

Pressure and position sensors

Remote security

Bio sensors

IR thermometers

Battery-powered consumer equipment

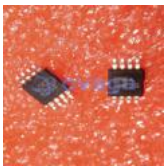
Hazard detectors

Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8022ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP8



[AD8628AUJZ](#)

Analog Devices, Inc
SOP23



[AD8041AR](#)

Analog Devices, Inc
SOP-8